

June 20-24, 2005  
Saint Petersburg  
Russian Federation

31<sup>st</sup>

**International  
Symposium  
on Remote  
Sensing  
of Environment**

**Global  
Monitoring  
for  
Sustainability  
and  
Security**



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# International Symposium on Remote Sensing of Environment

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We are pleased to invite you to the 31st International Symposium on Remote Sensing of Environment. The overall theme is the use of Earth observation systems in monitoring, understanding and managing our planet's environment with particular emphasis on global change, security and sustainability. The Symposium will include oral and poster sessions on vital issues of interest to research and educational institutions, governmental agencies, commercial companies as well as resource managers, decision-makers in public and private sectors and scientists involved in remote sensing research and applications.

## SYMPOSIUM HIGHLIGHTS

### TECHNICAL PROGRAM

- The primary forum for the application of Earth observation systems
- Presentations by experts from all over the world
- Special focus on technical sessions on the Arctic and sub-Arctic region
- Symposium proceedings on CD and distributed both at the meeting and through international networks

### EXHIBITION AND DISPLAYS

- Interactive poster presentations
- Organizations exhibiting their latest products and services
- One-on-one consultations  
(get instant feedback on your application issues)

### STUDENT PROGRAMS

- Valuable job-seeking advice from experienced professionals

### WORKSHOPS

- Pre-Symposium workshops

## Call for Papers

The 31st ISRSE Program Committee will consider and evaluate all abstracts received for possible inclusion in plenary, poster or parallel sessions. Abstracts submitted should focus on one of the following categories and themes:

- **Reducing loss of life and property from natural and human-induced disasters**

Land subsidence / land slides / earthquake warning / volcanic activity

Avalanches

Wildfires / forest fires / burnt areas

Tsunami / storm surges

Floods / droughts / hurricanes / typhoons / severe storms / blizzards / heat waves

Harmful algal blooms

Oil spills / nuclear and chemical accidents

Conflicts / humanitarian aid and refugee management

Pestilence

Space weather

- **Understanding environmental factors affecting human health and well being**

Air quality / aerosols / tropospheric ozone

Atmospheric chemistry and dynamics / transport monitoring and modelling

UV and near UV radiation

Urban environment / transportation infrastructure and patterns / noise levels

Quality and quantity of water for human use / waste management

Famine / food security

Biodiversity

Land use/land cover

Vector and water borne diseases

Energy resources and energy use

- **Understanding, assessing, predicting, mitigating and adapting to climate variability and global change**

Polar change / sea ice change / permafrost change

Glaciers and ice sheets

Sea level rise

Ocean and atmospheric circulations

Air-sea-ice interactions

Carbon cycle management, including carbon stock accounting

Greenhouse gases

Ozone and polar UV exposure

Global temporal gravity field

- **Improving water resource management through better understanding of water cycle**

Evaporation / precipitation

Groundwater management / watershed management

Inland waterbodies / wetlands

Water quality

Snow cover monitoring

Irrigation

Soil moisture / vegetation

- **Improving weather information, forecasting and warning**

Atmospheric parameters

Ocean surface parameters

Land surface parameters

Sea and lake ice parameters

- **Improving the management and protection of coastal and marine ecosystems**

Sea surface temperature / chlorophyll / sea level height / sea ice / currents / salinity

Pollution (including oil) management

Marine security / coastal transport / ship routing / ship traffic monitoring

Algal blooms / primary production / eutrophication  
Fishery management and efficiency  
Coastal and estuarine management

- **Management and protection of terrestrial ecosystems & understanding, monitoring and conserving biodiversity**

Forest management / Boreal forests / effect of agricultural practices

Land cover and land use change

Urban sprawl / subsidence measurements / soil sealing

Natural and cultural heritage

Habitat monitoring and protection / disturbance regimes

Human-wild life – disease interactions and invasive species

- **Supporting sustainable agriculture and combating desertification**

Precision farming / competitive agriculture

Food security / crop production

Aquaculture

Land degradation / biomass / vegetation stress / deforestation / land cover and use

Meteorological and hydrological events

- **Improving regional planning and management of energy resources and transportation**

Offshore engineering

Arctic marine routing / ship traffic monitoring

Pipeline management

Regional planning

- **Emerging technologies**

Data assimilation

Advanced instrumentation and missions

Space-borne architectures

Sub-orbital platforms

Verification, calibration and validation

Sensor web

Data integration and service provision

Data access, distribution and dissemination to users

Interoperability

Capacity building in new technologies

New programmes

## Submission of Abstracts

Interested contributors should submit a one-page, single-spaced summary of the paper they propose for presentation. It should be in English with a minimum of 200 and maximum of 500 words; 11-point Times font in MS Word. Please include the following information with the abstract: full name and title; e-mail address, fax, telephone and complete postal contact information; category and theme for which you are submitting your abstract; and three to five keywords relevant to the submission.

Abstracts should reach the Program Committee no later than November 1, 2004. Notification of paper acceptance and an author's kit will be mailed by January 10, 2005. Final papers will be due by March 1, 2005. Please submit abstracts through the Submit Abstract link at [www.symposia.org](http://www.symposia.org). If unable to submit abstract electronically mail it on any data carrier (CD or diskette) to the following address: Nansen International Environmental and Remote Sensing Centre (NIERSC), 26/28 Bolshaya Monetnaya Street, 197101 St. Petersburg, RUSSIA.

## Call for Exhibitors

Saint Petersburg is called the “Northern Capital” of the Russian Federation. This city is remarkable not only for its famous cultural but also scientific and industrial life. It is the largest scientific and industrial center in the northwestern region of Russia and affords many types of organizations the opportunity to showcase their latest products and innovations to clients, researchers, stakeholders, decision-makers and their peers from around the world.

### Why exhibit in Saint Petersburg 2005?

- The Symposium is dedicated to a niche market and is widely acknowledged to be one of the most significant gatherings of the remote sensing industry
- It is a unique marketing opportunity to expose products, equipment and services to quality visitors in a short space of time
- It is an opportunity for face to face contacts with the industry's Who's Who
- The Symposium is an excellent investment in cost-effective advertising
- This event is the ideal platform to launch new products, make announcements and present the latest innovations and technological developments
- The Symposium program will feature presenters from around the globe sharing their experiences and knowledge during plenary, breakout and poster sessions
- Holding of the Symposium in Saint Petersburg gives an opportunity to involve both Russian and international exhibitors and visitors and reasonably increase benefits and efficiency of the exhibition

Exhibition space will be sold on a first-come, first-served basis. A limited number of booths are available; so please do not delay your decision. A complete exhibitor's kit will be mailed following the confirmation of participation. Registrations are required by January 10, 2005 for inclusion in the programme.

### Stand Costs:

Commercial exhibits: US \$ 2,000 for a stand/booth of 3m x 2m – two or more adjacent booths can be booked.

Noncommercial exhibits: US \$ 1,000 for a stand/booth of 3m x 2m – two or more adjacent booths can be booked.

### Full Stand package includes:

- One full participant registration, admittance to all Symposium sessions and the Symposium proceedings on CD.
- Pre-Symposium publicity, a listing in the Symposium program, a link to your company or organization website from the Saint Petersburg, Russia, 2005 website at [www.symposia.org](http://www.symposia.org) Full payment received before November 1, 2004 also guarantees an exhibit listing in the preliminary program mailed to leaders in the remote sensing industry throughout the world.
- Booths with sign identifying your organization/company, panels, pair of spotlights, table and chair, tablecloth, hotel security, a complete exhibitor's kit.
- Daily aisle cleaning.

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For more information go to [www.symposia.org](http://www.symposia.org) or contract 31st ISRSE Coordinator, Catherine Mironova, Nansen International Environmental and Remote Sensing Centre (NIERSC), 26/28 Bolshaya Monetnaya Street, 197101 Saint Petersburg, Russia; e-mail: [31\\_ISRSE@niersc.spb.ru](mailto:31_ISRSE@niersc.spb.ru) or by fax at +7 (812) 234 38 65.

## Registration



All Symposium participants, including speakers, will be required to register for the Symposium. A preliminary program will follow in January of 2005. The registration fee covers admittance to all Symposium sessions; all Symposium materials and packet; one set of Symposium proceedings on CD; and coffee/tea service and icebreaker reception.

Online information and registration can be found at the registration link at [www.symposia.org](http://www.symposia.org). If you are unable to register on line, please send your registration information (name and complete contact information) and payment to: ISRSE, c/o Office of Arid Lands Studies, University of Arizona, 1955 East Sixth Street, Suite 205, Tucson, AZ 85719. For additional information regarding registration and methods of payment please contact the Registrar at [isrse@email.arizona.edu](mailto:isrse@email.arizona.edu) or by fax at + 1 (520) 621-3816.

## Cancellation Policy



Cancellation of registration must be in writing and faxed or e-mailed to the Symposium Registrar at [isrse@email.arizona.edu](mailto:isrse@email.arizona.edu) or fax + 1 (520) 621-3816. Cancellations received before March 1, 2005 will be refunded 100% of the registration fees received, less an administrative fee of US \$ 50. No refund for cancellations received on or after March 1, 2005, will be provided. This applies to all registration categories.

## Symposium Venue



The 31st ISRSE will be held at the “Saint Petersburg” Hotel ([www.hotel-spb.ru](http://www.hotel-spb.ru)) located in the heart of the city on the embankment of the Neva River, within easy reach of the major historical and cultural landmarks of Saint Petersburg. The hotel also offers accommodation with great prices to the participants of the conference and their guests. For hotel reservation you may forward your

request to [31\\_ISRSE@niersc.spb.ru](mailto:31_ISRSE@niersc.spb.ru). Please do not forget indication of the reference “31st ISRSE” as the subject of your electronic message. You may also select from other hotels located near the Symposium venue. Please go to hotels’ web-sites to inquire about rooms and prices: “Europe” 5-star Hotel ([www.grandhoteleurope.com](http://www.grandhoteleurope.com)), “Radisson SAS Royal” 5-star Hotel ([www.radissonSAS.com](http://www.radissonSAS.com)), “Astoria” 5-star Hotel ([www.astoria.spb.ru](http://www.astoria.spb.ru)), “Corinthia-Nevsky Palas” 5-star Hotel ([www.corinthiahotels.com](http://www.corinthiahotels.com)), “Russia” 3-star Hotel ([www.hotelruss.spb.ru](http://www.hotelruss.spb.ru)), “Oktiabrskaya” 3-star Hotel ([www.oktober-hotel.spb.ru](http://www.oktober-hotel.spb.ru)).

## Pre-Symposium Workshops

Three workshops are being planned for Sunday immediately preceding the Symposium (June 19, 2004). Information on the workshops will be available on the Symposium website [www.symposia.org](http://www.symposia.org) from November, 2004.

## Social Events

The Symposium will offer a unique and breathtaking environment for socializing and interacting with members of the international remote sensing community, while enjoying the many entertainment and cultural possibilities Saint Petersburg has to offer. These events are not included in the registration fee and must be pre-booked and paid for prior to the events.



For Wednesday, June 22, 2005 a boat tour is planned. We will have an opportunity to explore beautiful canals and rivers of Saint Petersburg and feel the fabulous atmosphere of White Nights – a period of almost continuous daylight. The boat tour includes dinner, cocktails, dancing and entertainment.

Participants and guests of the Symposium will be invited to visit “Mariinsky Theatre” to enjoy its unique ballet and opera troupes famous all over the world. The period of the Symposium coincides with the White Nights International Opera and Ballet Festival which will attract the most celebrated artists to Saint Petersburg.

A Banquet in one of the famous palaces of Saint Petersburg is planned for Thursday, June 23, 2005. We will feel the spirit of the Russian Empire and enjoy beautiful interiors of the place.

An extensive cultural program will offer a diverse and exciting variety of activities such as visiting of the Russian Museum and the Hermitage, tours around the city, excursions to splendid environs of Saint Petersburg, such as the Russian tsars’ residences of Peterhof, Pushkin, and Pavlovsk. Additional information can be found at [www.symposia.org](http://www.symposia.org)

## Post-Symposium Tours

Participants of the Symposium and their guests will be invited to book travel tours around Russia. You will have the opportunity to visit the Golden Ring of Russia-ancient Russian towns to the north-east of Moscow, which have witnessed a long life full of fascinating events, which preserve the memory of the most important and significant events in Russian history.



Today, these towns are often called "open-air museums" where the unique monuments of Russian architecture from the 12th-17th centuries are preserved, reminding us of dramatic historic events and heroic personalities. You may also visit ancient Valaam Monastery (which dates to 960) situated on Ladoga Lake, explore the northern reaches of Onega Lake and the Island of Kizhi, a unique museum of wooden architecture of the 14th-16th centuries and many other places. Information on the post-Symposium tours will be available on the Symposium website [www.symposia.org](http://www.symposia.org) from September, 2004.





*International  
Center for Remote  
Sensing of  
Environment*



РОСАКАДЕМИЯ НАУК



information from imagery



*Saint Petersburg  
State University*

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